

Central Valley Flood Protection Board Update

April 22, 2016

Presented by:

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Today's Discussion

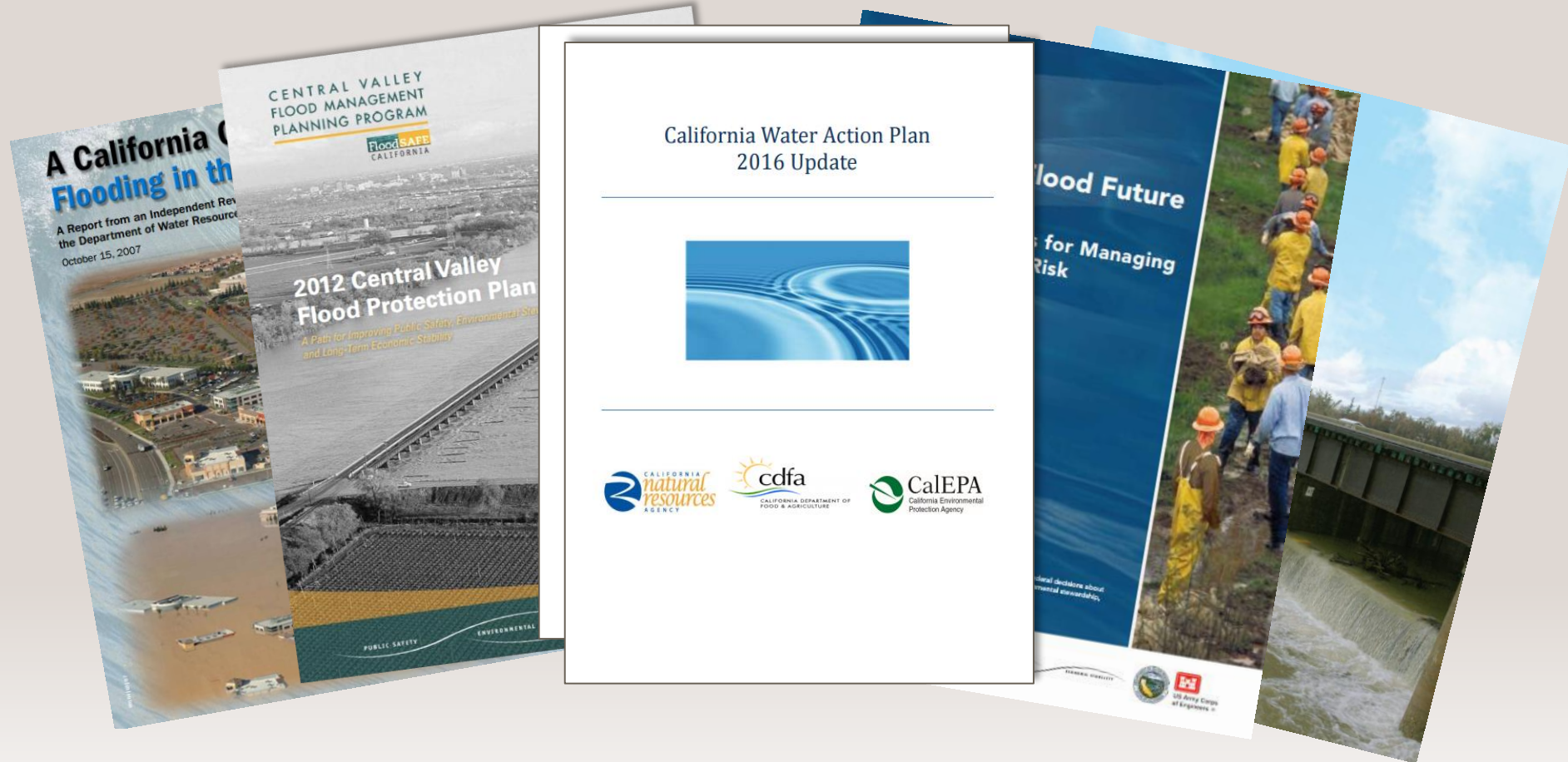
- **Overview of the Draft 2017 CVFPP Update**
 - Scope of 2017 CVFPP Update
 - Accomplishments Since 2012 CVFPP
 - Key Issues Described in the Document
 - Outcome-Based Planning and Implementation
 - Overview of Chapters 1-5
 - Major Supporting Efforts for 2017

2017 CVFPP Update

- Refines and updates the State Systemwide Investment Approach (SSIA) described in 2012 CVFPP
- Not a new plan, an update to 2012 CVFPP
- Additional specificity about recommended near and longer-term investment and financing approach



2017 CVFPP Update Policy Drivers

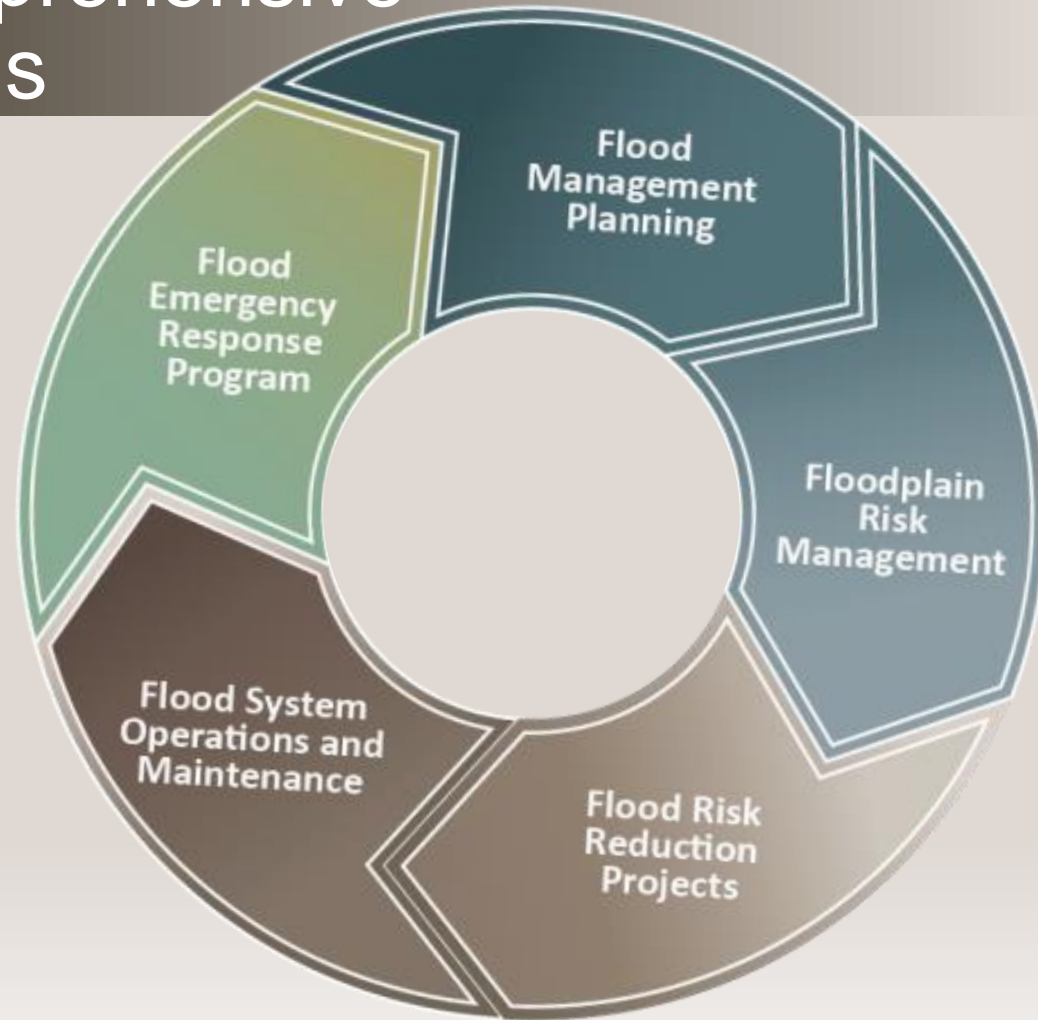


Relationship to California Water Action Plan

CWAP Actions	CVFPP Contribution
1. Make conservation a California way of life	<p>Action 2: CVFPP identified multi-benefit portfolios (Chapter 3) of investment that include IWM actions across local, regional, and State entities.</p> <p>Action 4: CVFPP Conservation Strategy identifies measurable ecosystem restoration objectives, and CVFPP investment portfolios include ecosystem improvements.</p> <p>Action 6: Sacramento and San Joaquin BWFS identify water flood storage related improvements (Chapter 3) as well as management actions to improve groundwater recharge .</p> <p>Action 8: Increasing flood protection related to the primary goal of CVFPP.</p> <p>Action 9: The CVFPP Conservation Strategy addresses regulatory issues and efficiency; The OMRR&R report report addresses flood operations and regulatory needs and efficiencies.</p> <p>Action 10: The CVFPP Investment Strategy (Chapters 4 and 5) addresses sustainable financing needs and strategies.</p>
2. Increase regional self-reliance and integrated water management across all levels of government	
3. Achieve the co-equal goals for the Delta	
4. Protect and restore important ecosystems	
5. Manage and prepare for dry periods	
6. Expand water storage capacity and improve groundwater management	
7. Provide safe water for all communities	
8. Increase flood protection	
9. Increase operational and regulatory efficiency	
10. Identify sustainable and integrated financing opportunities	

CVFPP Informs Comprehensive Set of Flood Programs

- CVFPP guides Division of Flood Management “mega programs” and future State investment/implementation



Accomplishments Since 2012

- Committed \$1.4 billion in State investments through mega programs, compared to \$1.5-\$1.7 billion estimated in 2012 CVFPP
- 2017 CVFPP Update Planning Process
 - Completed two basin-wide feasibility studies that refine SSIA
 - Chartered and funded regional planning effort
 - Completed O&M Technical Memo, which identifies \$100 million yearly deficit for O&M activities
 - Developed Investment Strategy, Conservation Strategy
- 2012 CVFPP Implementation Projects

Top Issues: 2012 CVFPP & 2017 CVFPP Update

Floodplain & Watershed Management



Phased Implementation & Prioritization



Long-Term System Management



Residual Risk Management



Investment Strategy / Revenue Needed



Multiple Benefits Integration



Governance & Institutional Considerations



Coordination with Federal Agencies



CVFPP Development Built on Stakeholder Engagement

- Communications and engagement approach:
 - Partnership with CVFPB
 - Frequent interaction
 - Emphasis on shared perspectives
 - Discussions rooted in outcome-based planning approach

Summary of 2017 CVFPP Update Chapters

2017 CVFPP Update Chapters	2012 CVFPP Content
Chapter 1: Setting Context	Section 1: Responding to the Need for Improved Flood Management in the Central Valley
Chapter 2: Converging on Solutions for Improving Flood Management	Section 1: Responding to the Need for Improved Flood Management in the Central Valley Section 2: Preliminary Approaches
Chapter 3: Outlining Strategies to Improve System Management	Section 2: Preliminary Approaches Section 3: State Systemwide Investment Approach
Chapter 4: CVFPP Implementation	Section 4: Implementing and Managing the State Systemwide Investment Approach
Chapter 5: Financing and Tracking CVFPP Outcomes (Tracking CVFPP Outcomes is new to the 2017 Update)	Section 4.7: Financing Strategy for Implementing State Systemwide Investment Approach

Goals, Purpose, Scope

Chapter 1

Context

CVFPP GOALS

INTENDED OUTCOMES

Primary Goal: Improve flood risk management

Reduce the chance of flooding



Reduce damages once flooding occurs



Improve public safety, preparedness, and emergency response



Supporting Goals

Improve Operations and Maintenance



Promote Ecosystem Functions



Promote Multi-benefit Projects



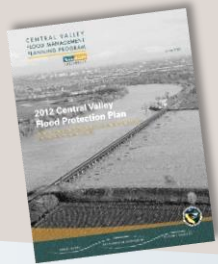
Improve Institutional Support



Converging on Solutions for Improving Flood Management

Chapter 2

Converging



INTENDED OUTCOMES



ACCOUNTABILITY

ACHIEVED OUTCOMES

IMPLEMENT



CONVERGENCE

COLLECTION

OF POTENTIAL CVFPP MANAGEMENT ACTIONS

- CVFPP Planning Elements
- Related Planning Elements

ASSESS

PROPOSED
MANAGEMENT
ACTIONS

SELECTION

OF ACTIONS WITH
POTENTIAL
STATE INTEREST

DEVELOP

AND EVALUATE
PORTFOLIOS

MONITORING AND TRACKING
CVFPP 2022

CHAPTER 2

CHAPTER 3



















CHAPTER 4

CHAPTER 5

Performance & Benefits – Intended Outcomes

Chapter 3

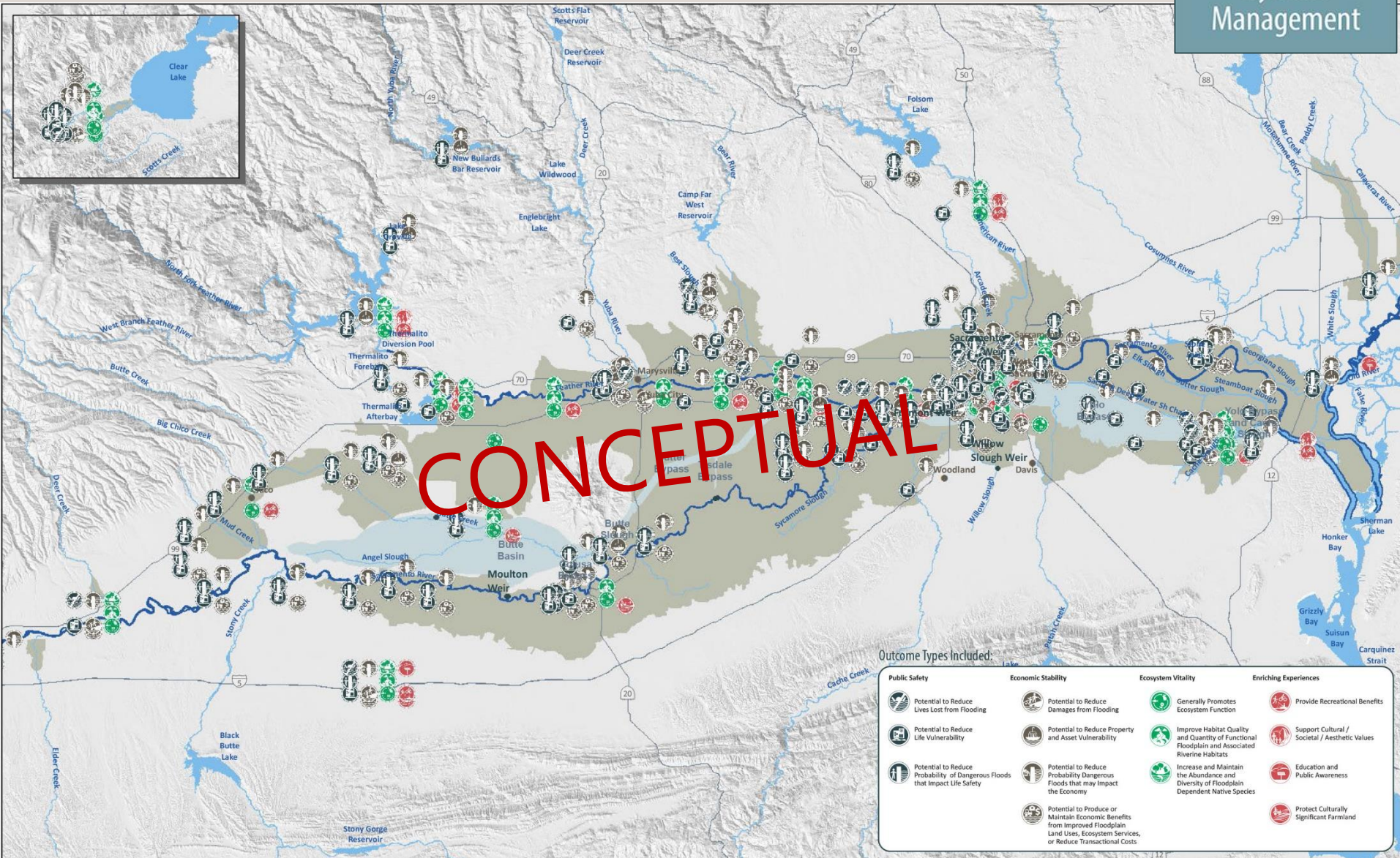
System Management

Intended Outcomes	Flood-specific Outcome		Intended Outcomes	Flood-specific Outcome	
 Public Safety		Reduce Life Exposure	 Ecosystem Vitality		Generally Promote Ecosystem Function
		Reduce Life Vulnerability			Improve Habitat Quality and Quantity of Functional Floodplain and Associated Riverine Habitats
		Reduce Probability of Dangerous Floods that Impact Life Safety			Increase and Maintain the Abundance and Diversity of Floodplain Dependent Native Species
 Economic Stability		Reduce Property and Asset Exposure	 Enriching Experiences		Provide Recreational Benefits
		Reduce Property and Asset Vulnerability			Support Cultural/Societal/Aesthetic Values
		Reduce Probability of Dangerous Floods that Impact the Economy			Education and Public Awareness
		Produce or Maintain Economic Benefits on Floodplains			Protect Culturally Significant Farmland

State-Recommended Investment Portfolio

Chapter 3

System Management





Areas of Interest

- Capital Improvements
 - Systemwide
 - Urban
 - Rural
 - Small Community
- Ongoing Investments
 - Systemwide
 - Urban
 - Rural
 - Small Community

Description of Management Actions

Chapter 3

System Management

Management Action Category	Investment Type	Management Action Type	Flood-Specific Outcome
Flood Infrastructure 	Capital Improvement	Flood infrastructure varies significantly based on the type of flooding. Flood infrastructure can include the following: levees and floodwalls, levee setbacks, channels, bypasses, retention and detention basins, culverts and pipes, debris mitigation structures, hydraulic structures, and coastal armoring structures, shoreline stabilization, and streambank stabilization.	

Plan Implementation

Chapter 4

Implementation Timing

- Summary of accomplishments to date
- Proposed near- and longer-term phasing of management actions discussed in Chapter 3
- Corresponding roles and investment recommendations for various DWR implementation programs
- Implementation challenges and opportunities

Financing

Chapter 5

Measuring Value

STATE	Mechanism	Applicable Investment Types
	Additional General Fund \$	Emergency Management & Response, System Maintenance and Operations (including for Ecosystem Reconciliation efforts), Development and Use of Technical Tools and Planning
	GO Bonds	Easements & Land Acquisitions, Levee and Channel Improvements, Bypass Expansions and Modifications, Storage (transitory, groundwater, and/or surface), Setback Levees, Floodproofing
	Regulatory Fees	Ecosystem Reconciliation Efforts (potentially some share towards eco-friendly bypass or setback modifications)
	Water Surcharge	Ecosystem Reconciliation Efforts (potentially some share towards eco-friendly bypass or setback modifications)
	River Basin Assessment	Institutional capacity for performance tracking, risk-based technical analysis, landowner mitigation programs (for habitat-friendly ag, etc. . .), and local assistance
LOCAL	Property Assessments	System Maintenance, Emergency Management & Response, Levee and Channel Improvements, Bypass Expansions and Modifications, Storage (transitory, groundwater, and/or surface), Setback Levees
	Infrastructure Financing Districts	Levee and Channel Improvements, Bypass Expansions and Modifications, Storage (transitory, groundwater, and/or surface), Setback Levees, Floodproofing
	Broad Special Tax	Institutional capacity for performance tracking and reporting, risk-based technical analysis, and landowner mitigation programs
	Developer Fees	System Maintenance, Emergency Management & Response, Levee and Channel Improvements, Bypass Expansions and Modifications, Storage (transitory, groundwater, and/or surface), Setback Levees

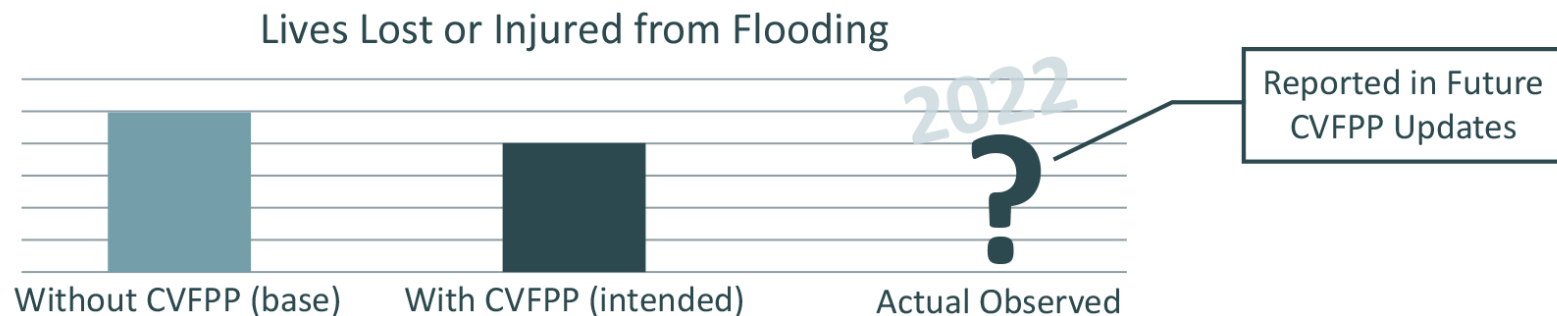
Tracking Outcomes

Chapter 5

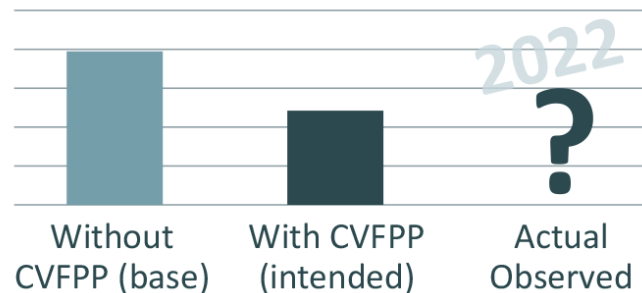
Measuring Value



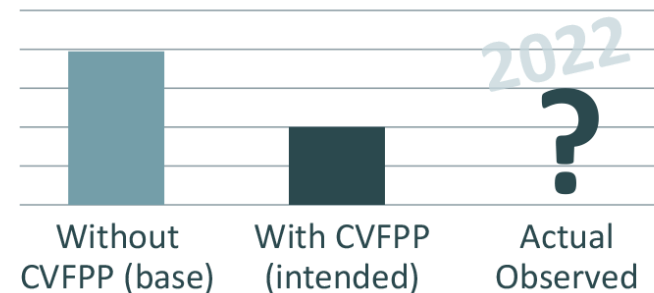
Reducing Lives Lost and/or Injured from Flooding



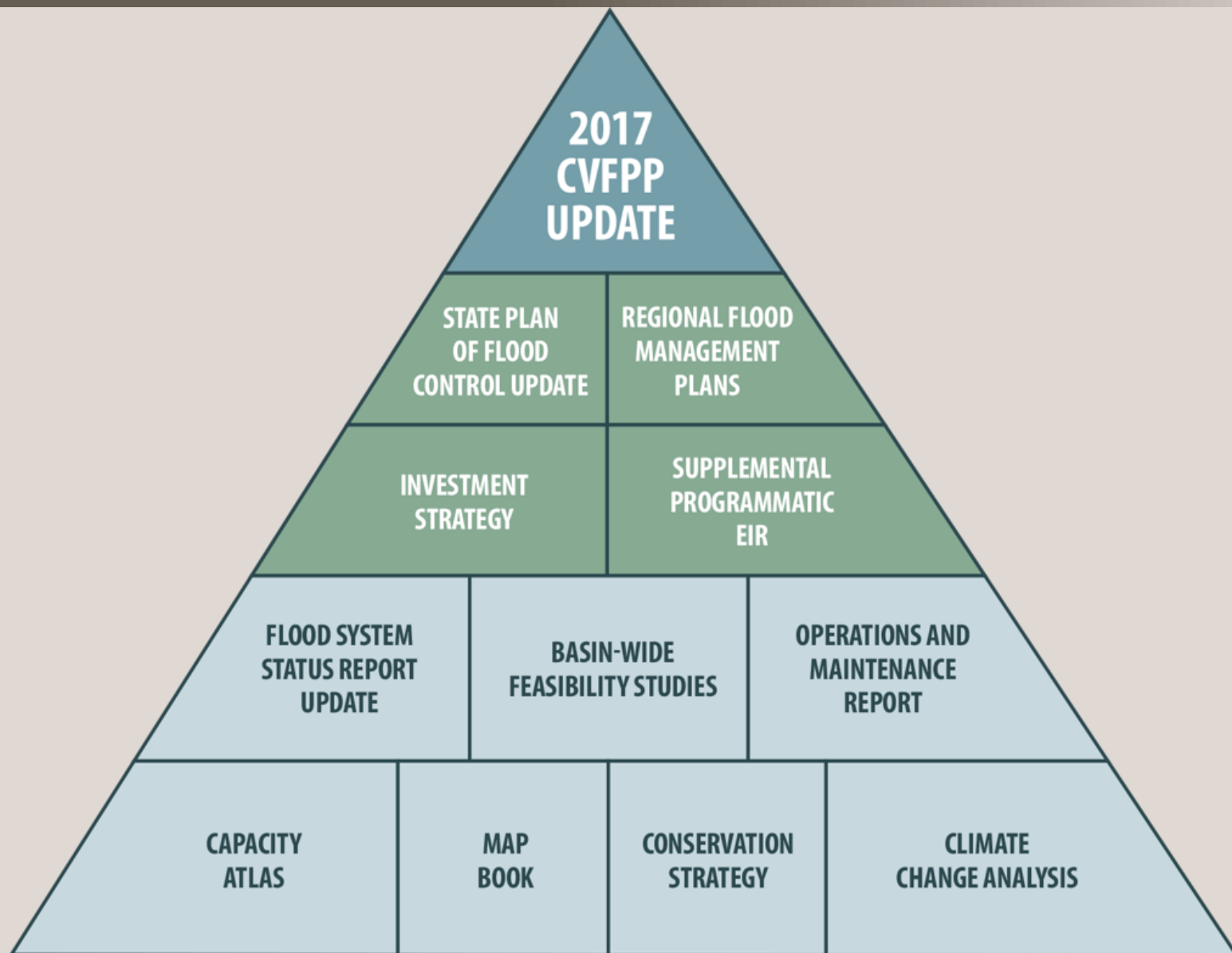
Lives Exposed in Reach Y



Evacuation Time in Urban Areas



Major Supporting Efforts for 2017



Upcoming Engagement/Key Dates

- **CVFPB Board Meeting Briefing Topics**
 - May 20: OMRR&R Work Group
 - June 24: Chapter 5 Development
- **Ongoing engagement to refine portfolios, CVFPP recommendations**
- **Review Drafts of 2017 CVFPP Update**
 - July – Admin draft (internal)
 - August – Admin draft (CVFPB)
 - October – Stakeholder draft
 - December – Public draft

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